CLAIMS

What is claimed is:

1.   A vehicle navigation system, comprising:

a vehicle; and

a navigation system housed in the vehicle, the navigation system comprising:

a processor,

a positioning system coupled to the processor for determining position data

relating to a location of the vehicle;

a memory coupled to the processor to store data for the processor; and

a program for use by the processor configured to:

determine if position data and destination data correspond to an operator

preferred route stored in memory;

provide the operator preferred route if the position data and destination

data correspond to the operator preferred route; and

update the operator preferred route by monitoring the position data.

2.   The vehicle navigation system, as set forth in claim 1, wherein the navigation

system comprises a display for providing images to an operator of the vehicle.

3.   The vehicle navigation system, as set forth in claim 1, wherein the navigation

system comprises a user interface configured to facilitate entry of the destination data by a

vehicle operator.

4.   The vehicle navigation system, as set forth in claim 3, wherein the user interface

comprises a keyboard and a display.

5.   The vehicle navigation system, as set forth in claim 1, wherein the operator

preferred route is defined by the number of time that a specific route is utilized.

5   6.   The vehicle navigation system, as set forth in claim 1, wherein the operator

preferred route is defined by the operator based on preferences of the operator.

7.   A system, comprising:

a vehicle having a navigation system; and

10   a navigation server adapted to communicate with the navigation system via a network,

the navigation server having a program that is adapted to:

generate an optimal route from an origination location to a destination location;

access a client profile stored in a memory that is coupled to the navigation server

to determine whether a preferred route is defined; and

15   provide at least one of the optimal route and the preferred route to the operator of

the vehicle.

8.   The system, as set forth in claim 7, wherein the network comprises a satellite

link between the navigation system and the navigation server.

20

9.   The system, as set forth in claim 7, wherein the network comprises a cellular

node between the navigation system and the navigation server.

10.   The system, as set forth in claim 7, wherein the program interacts with a traffic server to integrate traffic data with the origination location and the destination location to generate the optimal route.

5   11.   The system, as set forth in claim 7, wherein the program interacts with an information server to integrate mapping data with the origination location and the destination location to generate the optimal route.

12.   A system, comprising:

10   a processor;

a positioning module in communication with the processor for determining location data that relates to a location of a device;

an interface module adapted to communicate data to a user of the device; and

a routine utilized by the processor, the routine configured to:

15   utilize location data from the positioning module;

utilize destination data provided to the interface module;

determine whether the location data and the destination data correspond to a defined route stored in memory;

provide the defined route if the location data and destination data correspond to

20   the defined route;

generate an optimal route if the location data and the destination data do not correspond to the defined route; and

provide the optimal route if the location data and the destination data do not correspond to the defined route.

25

13.   The system, as set forth in claim 12, comprising a communication module that is coupled to the processor and configured to exchange data with a system external to the device.

14.   The system, as set forth in claim 13, wherein the routine is further adapted to exchange navigation data and location data via the communication module with the external system via a wireless link.

15.   The system, as set forth in claim 12, wherein the interface module utilizes hands-free voice capability.

16.   The system, as set forth in claim 12, wherein the interface module comprises a keyboard and display.

17.   The system, as set forth in claim 12, wherein the positioning module is a global positioning system.

18.   A method of operating a navigation system, the method comprising the acts of:

entering a destination location at a device;

receiving an origination location;

determining if the origination location has been utilized with the destination location

based on stored data;

providing a default route if a default route has been defined in memory;

generating an optimal route if the default route is not defined for the origination

location and the destination location; and

providing an optimal route if a default route is not defined.

19.   The method, as set forth in claim 18, comprising setting a default route if a

condition is set.

5   20.   The method, as set forth in claim 19, comprising setting the condition if the

number of times the origination location has been utilized with the destination location is

greater than or equal to a specific number of times.

21.   The method, as set forth in claim 19, comprising setting the condition if a user

10   enters that an actual route is a default route.

22.   The method, as set forth in claim 18, comprising monitoring an actual route from

the origination location to the destination location.

15   23.   The method, as set forth in claim 18, wherein determining further comprises

accessing stored data in a database external to the device.

24.   The method, as set forth in claim 18, wherein determining further comprises

accessing stored data in memory within the device.

20

25.   A method of operating a navigation system, the method comprising the acts of:

entering destination data into a user interface of a vehicle;

receiving origination data;

communicating the origination data and the destination data to a server via a network;

25   accessing a client profile;

comparing the client profile with the origination data and the destination data;

determining if the origination data and the destination data correspond to a defined route

in the client profile that is based on a user's experience and knowledge;

generating an optimal route if the origination data and the destination data do not

5 correspond to the defined route; and

communicating at least one of the optimal route and the user defined route to the

vehicle.

26.   The method, as set forth in claim 25, comprising presenting the at least one of

10 the optimal route and the user defined route to an operator of the vehicle.

27.   The method, as set forth in claim 25, comprising setting the user defined route if

a number of times a route is associated with the origination data and the destination data is

greater than or equal to a specific value.

15

28.   The method, as set forth in claim 25, wherein communicating comprises

utilizing a satellite link between the server and the vehicle.

29.   The method, as set forth in claim 25, comprises monitoring an actual route from

20 an origination location that corresponds to the origination data to a destination location that

corresponds to the destination data.

30.   The method, as set forth in claim 25, wherein generating the optimal route is

automatically calculated based on a predefined routine.

25

31.   A method of manufacturing a navigation system comprising the acts of:

providing a navigation system comprising a processor;

coupling a user interface to the processor for entering data from an operator;

coupling a positioning module to the processor for determining location data;

5   coupling a display to the processor for presenting route data to an operator;

coupling a memory to the processor; and

configuring a program within the memory that is adapted to:

receive destination data from the user interface;

receive origination data from one of the positioning module and the user

10   interface;

present a preferred route if with the origination data and the destination data

correspond to the preferred route;

generate an optimal route if the origination data and the destination data do not

correspond to the preferred route; and

15   present the optimal route if with the origination data and the destination data do

not correspond to the preferred route.

32.   The method, as set forth in claim 31, comprises coupling a communications

module to the processor.

20

33.   The method, as set forth in claim 32, comprises configuring the program to

communicate with an external server to download traffic data via the communications

module.

34.   The method, as set forth in claim 32, comprises configuring the program to

communicate with an external server to download construction data via the communications

module.